IN THE CLAIMS:

Kindly replace claims 16-20, and add new claims 21-29, as follows:

16. (amended) A method of preparing a reduced lead content aviation gasoline composition while maintaining a high motor octane number comprising,

blending an aviation gasoline composition with iso-octane, and, optionally, toluene,

wherein, the reduced lead content aviation gasoline composition comprises about 20 to about 80 vol% iso-octane, about 5 to about 18 vol% toluene, about 1 to about 20 vol% C_4 to C_5 paraffins, about 0 to about 1 ml tetraethyl lead/gallon of said reduced lead content aviation gasoline composition and the balance comprising light alkylate.

17. (amended) The method of claim 16, wherein the motor octane number of the reduced lead content aviation gasoline is at least about 98.

18. (amended) The method of claim 16, wherein the motor octane number of the reduced lead content aviation gasoline is at least about 100.

19. (amended) The method of claim 16, wherein the reduced lead content aviation gasoline comprises about 30 to about 70 vol% iso-octane.

20. (amended) The method of claim 16, wherein the reduced lead content aviation gasoline comprises about 40 to about 60 vol% iso-octane.

- - 21. (new) The aviation gasoline composition according to claim 1, wherein the amount of tetraethyl lead present in said aviation gasoline composition is greater than 0 to about 1 ml tetraethyl lead/gallon of said aviation gasoline composition.

22. (new) The method of claim 6, wherein the amount of tetraethyl lead present in said aviation gasoline composition is greater than 0 to about 1 ml tetraethyl lead/gallon of said aviation gasoline composition.

23 (new) The method of claim 11, wherein the amount of tetraethyl lead present in said aviation gasoline composition is greater than 0 to about 1 ml tetraethyl lead/gallon of said aviation gasoline composition.

24 (new) The method of claim 16, wherein the amount of tetraethyl lead present in said reduced lead content aviation gasoline composition is greater than 0 to about 1 ml tetraethyl lead/gallon of said reduced lead content aviation gasoline composition.

25. (new) The method of claim 16, wherein said aviation gasoline composition which is blended with iso-octane and, optionally, toluene, contains lead.

26. (new) The aviation gasoline composition according to claim 1, wherein said aviation gasoline composition is substantially free of ether compounds.

27. (new) The method of claim 6, wherein said aviation gasoline composition is substantially free of ether compounds.

a3

28 (new) The method of claim 11, wherein said aviation gasoline composition is substantially free of ether compounds.

29 (new) The method of claim 16, wherein said aviation gasoline composition is substantially free of ether compounds.